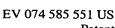
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CLAIMS

What is Claimed:

1. In a mobile station including a preferred roaming list, a system 2 acquisition procedure comprising the steps of:

maintaining a list of unusable wireless communications systems, each entry in 4 the list of unusable wireless communications systems including a system identifier and corresponding avoidance criterion;

selecting a wireless communications system from the preferred roaming list in 6 accordance with a predetermined system acquisition sequence and repeating the step of selecting until a usable system is selected; and 8

attempting to acquire and register with the selected wireless communications system,

wherein the selected wireless communications system is unusable if the list of unusable wireless communications systems includes a corresponding system identifier and the corresponding avoidance criterion is satisfied.

- 2. The method of Claim 1 wherein each system identifier identifies at 2 least one wireless communications system.
- The method of Claim 2 wherein each wireless system identifier 3. 2 includes a frequency.
- 4. The method of Claim 1 wherein each wireless system identifier includes a SID/NID pair that uniquely identifies a wireless communications system. 2
- 5. The method of Claim 1 wherein the step of maintaining comprises the steps of: 2

detecting a communications failure with a wireless communications system;

and 4



adding a new entry to the list of unusable wireless communications systems, the new entry including an identifier of the failed wireless communications system and corresponding avoidance criterion.

6. The method of Claim 5 wherein the step of maintaining further comprises the steps of:

assigning an avoidance duration to the detected system failure; and

- 4 calculating an avoidance time before which the failed wireless communications system is unusable, the avoidance time equal to a current time plus
- 6 the avoidance duration,

wherein the avoidance criterion includes the avoidance time.

- 7. The method of Claim 6 wherein the avoidance criterion is satisfied if the stored avoidance time is greater than the current time.
- 8. The method of Claim 7 wherein the step of assigning an avoidance duration comprises the steps of:

maintaining a list of detectable wireless communications failures, each detectable wireless communications failure having a corresponding avoidance duration;

- locating the detected system failure in the list of wireless communications failures; and
- 8 using the corresponding avoidance duration in the step of calculating.
- 9. The method of Claim 8 wherein the step of detecting includes the step of detecting failed attempts to acquire and register with the selected wireless communications system.
- The method of Claim 9 wherein the steps of selecting and attempting
 are repeated until the mobile device successfully acquires and registers with the selected wireless communication.

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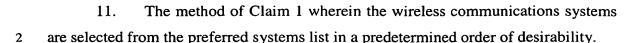
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12. In a mobile station, a method for marking wireless communications systems as unusable comprising the steps of:

maintaining a list of unusable wireless communications systems, each entry in the list of unusable wireless communications systems including a system identifier and corresponding avoidance criterion;

detecting a communications failure associated with a currently selected wireless communications system; and

adding a record to the stored list of unusable systems, the added record including an identifier of the currently selected wireless communications system and corresponding avoidance criterion based on the detected communications failure, wherein the currently selected wireless communications system is unusable while the corresponding avoidance criterion is satisfied.

- 13. The method of Claim 12 wherein each system identifier is associated with at least one wireless communications system.
- 14. The method of Claim 12 wherein the step of adding comprises the 2 steps of:

assigning an avoidance duration to the detected communications failure;

- 4 calculating an avoidance time before which the failed wireless communications system is unusable, wherein the avoidance time is equal to a current
- 6 time plus the avoidance duration; and

storing the avoidance time as the corresponding avoidance criterion.

15. The method of Claim 14 wherein the step of assigning an avoidance duration comprises the step of:

maintaining a list of identified wireless communications failures, each wireless communications failure having a corresponding avoidance duration;



locating the detected system failure in the list of wireless communications 6 failures; and

using the corresponding avoidance duration in the step of calculating.

16. The method of Claim 15 wherein at least two avoidance durations stored in the list of identified wireless communications failures have different values.

17. A mobile station comprising:

- a memory storing a preferred roaming list, the preferred roaming list including a first plurality of system identifiers and corresponding acquisition parameters; and
- processing circuitry adapted to create and maintain a list of unusable systems, the list of unusable systems being stored in the memory and including a second plurality of system identifiers and corresponding avoidance criterion,
- wherein a wireless communications system is unusable if it is identified by a system identifier in the list of unusable systems and the corresponding avoidance criterion is satisfied.
- 18. The mobile station of Claim 17 wherein the processing circuitry 2 comprises:
- a system determination unit adapted to select wireless communications
 systems from the preferred roaming list in accordance with a predetermined system acquisition procedure and attempt to acquire selected wireless communications
 systems that are usable.
- 19. The mobile station of Claim 18 wherein the processing circuitry is
 2 further adapted to detect communications failures with selected wireless
 communications systems, and in response to a detected communications failure, add
 4 an entry to the list of unusable systems, the entry including a system identifier for the
 selected wireless communications system and an avoidance time, the avoidance time
- 6 indicating a duration during which the selected wireless communications system is unusable.



- 20. The mobile station of Claim 19 further including a clock, wherein the memory further includes a list of communications failures, each communications failure having a corresponding avoidance duration, and
- wherein the avoidance time equals a current time as measured by the clock plus the avoidance duration for the corresponding communications failure.
- 21. The mobile station of Claim 20 wherein the processing circuitry is further adapted to delete an entry from the list of unusable communications systems when the corresponding avoidance time is less than the current time.